

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317798

Luminaire Tested: **GAN-SA4B-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23569 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

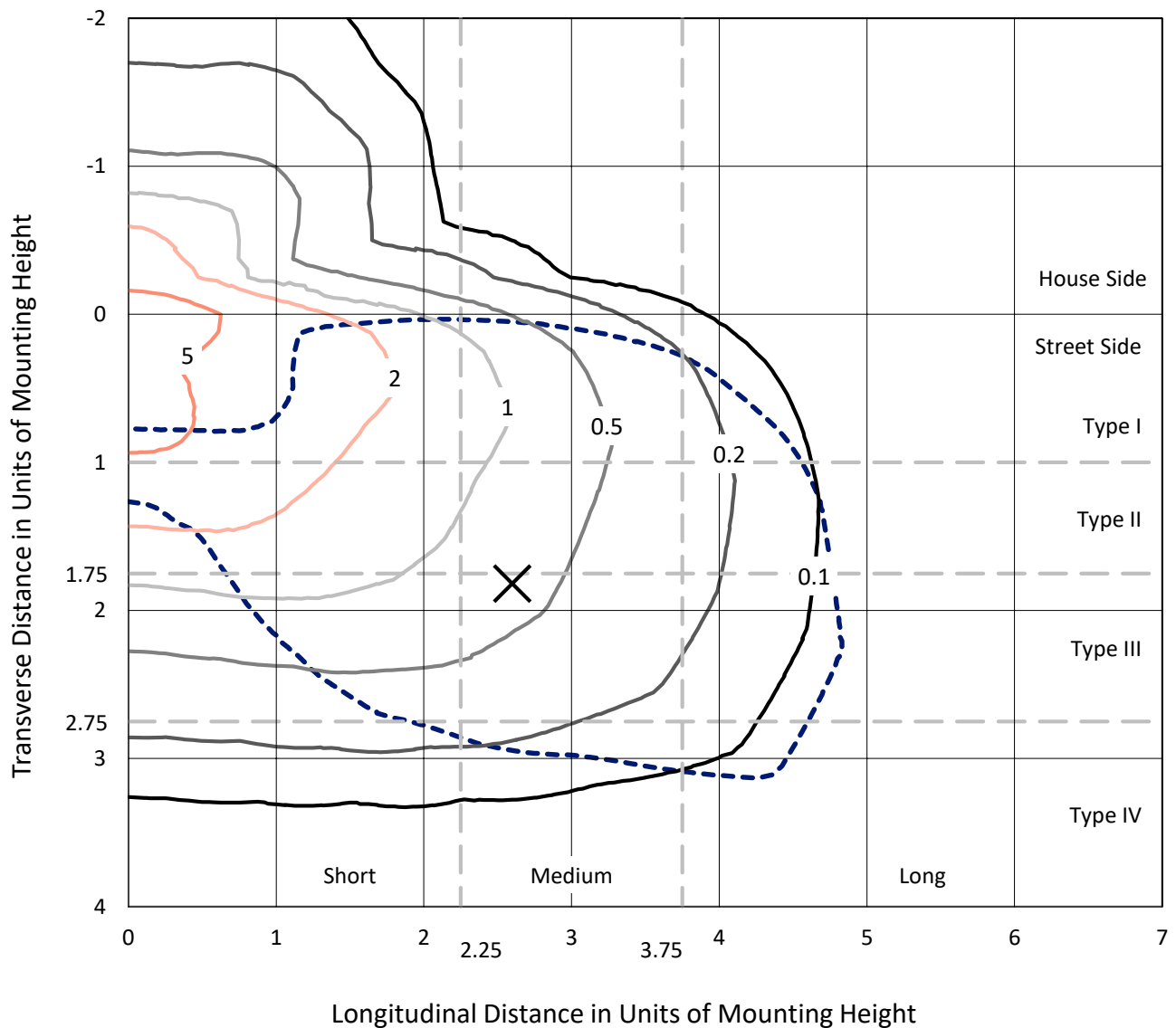
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

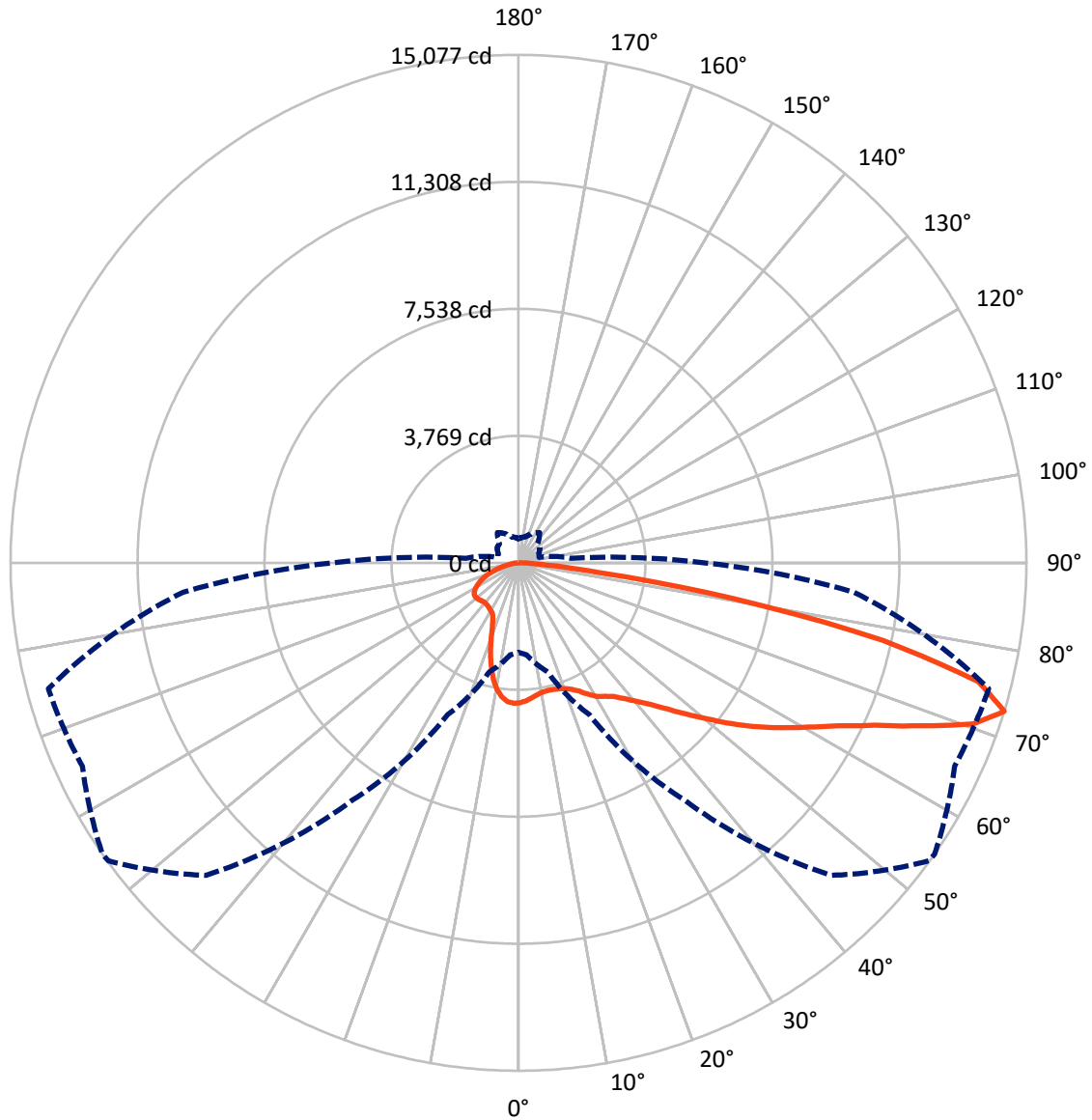
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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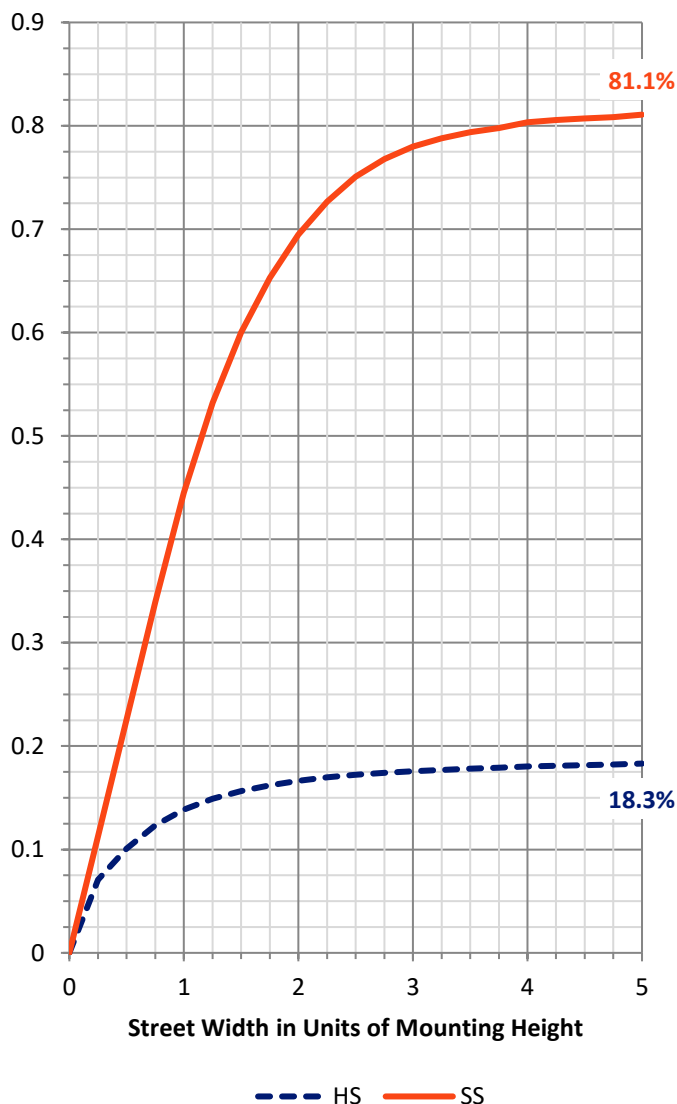
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4380.7	0.0	4380.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19188.3	0.0	19188.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	23569.0	0.0	23569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	1.6
10°-20°	1001.5	4.2
20°-30°	1651.2	7.0
30°-40°	2442.6	10.4
40°-50°	3409.3	14.5
50°-60°	4439.0	18.8
60°-70°	5455.4	23.1
70°-80°	4276.4	18.1
80°-90°	517.5	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23569.0	100.0
0°-180°	23569.0	100.0

Coefficient of Utilization

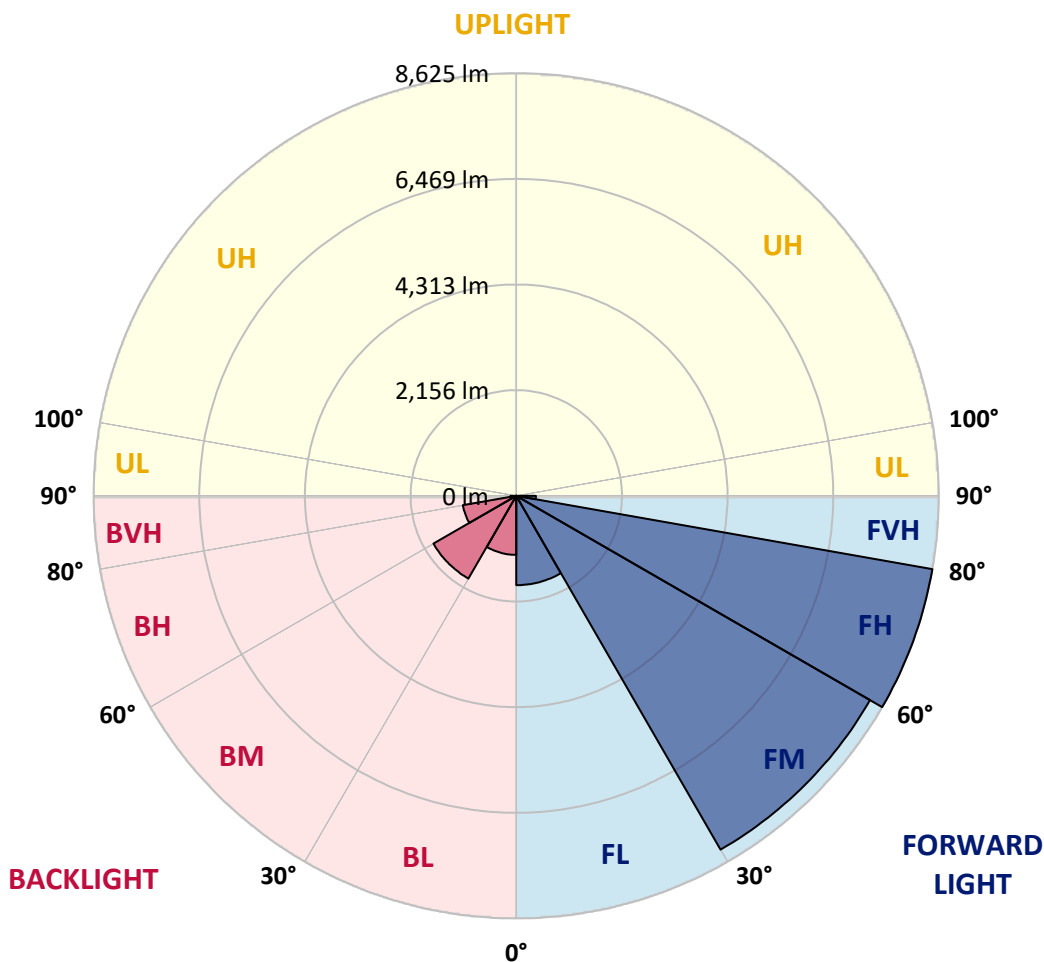


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.6	7.7			
FM (30°-60°)	8339.2	35.4			
FH (60°-80°)	8625.5	36.6			G4/12000
FVH (80°-90°)	400.1	1.7			G3/500
BL (0°-30°)	1205.3	5.1	B3/2500		
BM (30°-60°)	1951.7	8.3	B2/2500		
BH (60°-80°)	1106.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	117.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1
2.5°	4021.7	4012.2	4024.1	4040.8	4059.1	4083.8	4098.2	4104.5	4129.2	4138.8	4159.5
5°	3835.5	3830.7	3850.6	3879.2	3919.8	3977.2	4023.3	4032.1	4097.4	4143.5	4185.7
7.5°	3700.1	3700.1	3723.2	3757.4	3802.8	3880.0	3945.3	3957.3	4067.9	4167.4	4245.4
10°	3592.7	3596.6	3623.7	3664.3	3717.6	3799.6	3886.4	3899.9	4059.9	4223.1	4347.3
12.5°	3521.0	3530.6	3555.2	3591.9	3657.9	3757.4	3867.3	3885.6	4076.7	4302.7	4469.9
15°	3566.4	3582.3	3584.7	3599.8	3636.4	3744.7	3878.4	3897.5	4112.5	4383.9	4609.2
17.5°	3765.4	3771.0	3746.3	3714.5	3696.9	3766.2	3911.9	3931.8	4155.5	4464.3	4743.0
20°	4067.9	4064.7	4011.4	3925.4	3836.2	3847.4	3966.8	3987.5	4213.6	4535.2	4876.7
22.5°	4450.0	4438.9	4356.9	4198.5	4046.4	3982.7	4063.1	4080.6	4301.2	4636.3	5020.0
25°	4913.3	4888.7	4780.4	4567.8	4344.1	4180.2	4208.0	4224.7	4428.5	4749.3	5151.4
27.5°	5402.1	5377.4	5239.7	4982.6	4684.9	4429.3	4407.8	4422.2	4573.4	4832.9	5248.5
30°	5913.2	5886.9	5761.1	5473.0	5046.3	4687.2	4594.1	4599.7	4675.3	4878.3	5328.1
32.5°	6426.7	6402.0	6261.1	5926.7	5438.7	4964.3	4728.6	4721.5	4736.6	4925.3	5418.0
35°	6947.3	6956.8	6792.0	6421.9	5873.4	5272.4	4887.9	4872.7	4839.3	5021.6	5545.4
37.5°	7504.5	7498.2	7284.8	6897.9	6327.9	5606.7	5116.3	5113.9	4998.5	5203.9	5745.2
40°	7877.1	7881.1	7751.3	7385.1	6787.3	5976.9	5409.3	5403.7	5252.5	5476.9	6007.1
42.5°	8022.8	8049.0	8082.5	7850.0	7268.1	6406.0	5758.8	5750.8	5606.7	5868.6	6315.2
45°	8033.1	8085.7	8292.6	8263.2	7755.3	6897.1	6205.3	6183.1	6079.6	6389.2	6683.0
47.5°	7944.0	7998.1	8342.0	8509.2	8190.7	7415.4	6727.6	6710.1	6620.9	7040.4	7081.0
50°	7748.9	7800.7	8240.1	8629.4	8549.0	7913.7	7329.4	7283.2	7235.5	7792.7	7536.4
52.5°	7383.5	7483.0	8104.0	8658.0	8763.1	8356.3	7962.3	7932.0	7958.3	8586.4	7992.5
55°	6518.2	6629.7	7752.9	8634.1	8921.5	8728.1	8595.1	8593.5	8729.7	9419.1	8482.1
57.5°	6033.4	6112.2	7038.0	8593.5	9109.4	9097.5	9221.6	9236.8	9501.9	10325.8	8994.8
60°	5759.5	5842.3	6675.8	8443.1	9400.8	9575.1	9860.9	9891.1	10286.8	11329.6	9611.7
62.5°	5510.4	5601.1	6451.3	8136.6	9743.9	10258.1	10626.7	10653.8	11117.9	12361.3	10208.0
65°	5084.5	5187.2	6122.6	7935.2	10055.9	11148.9	11600.3	11618.6	12072.4	13442.4	10664.1
67.5°	4482.7	4576.6	5502.4	7490.2	10286.8	12230.8	12894.7	12905.1	13018.9	14205.8	10897.4
70°	3779.7	3815.6	4618.8	6571.5	10013.7	13242.6	14313.3	14315.7	13881.8	14694.6	10859.2
72.5°	2655.7	2740.1	3353.0	4974.6	8605.5	13119.2	15049.7	15076.7	14283.0	14447.8	9991.4
75°	1628.8	1717.9	2103.2	3014.7	5459.4	10317.8	13904.9	14092.8	13530.8	12882.0	8162.1
77.5°	1089.0	1122.5	1372.4	1757.7	2473.4	5936.3	10690.4	11043.8	11240.5	9394.4	5219.8
80°	607.4	671.1	909.9	1092.2	1100.2	2358.7	6409.9	6492.7	6253.9	3740.7	1610.4
82.5°	321.6	356.6	607.4	641.6	600.2	789.7	2389.0	2391.4	1998.1	1003.0	478.4
85°	249.2	278.6	416.3	391.7	306.5	350.3	788.1	831.1	679.8	410.8	156.0
87.5°	124.2	154.4	282.6	248.4	120.2	100.3	281.8	300.9	268.3	160.8	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1
2.5°	4167.4	4174.6	4183.3	4173.8	4170.6	4157.9	4136.4	4131.6	4120.4	4121.2	4127.6
5°	4204.0	4216.0	4211.2	4174.6	4130.8	4069.5	4005.8	3951.7	3915.9	3913.5	3911.1
7.5°	4274.1	4282.0	4244.6	4140.3	4017.8	3876.1	3742.3	3625.3	3554.4	3536.9	3532.9
10°	4383.9	4382.4	4279.7	4069.5	3825.1	3572.0	3357.0	3194.6	3099.9	3072.0	3064.9
12.5°	4506.5	4488.2	4291.6	3940.5	3552.8	3201.8	2929.5	2748.8	2650.1	2618.3	2610.3
15°	4633.1	4587.7	4262.1	3747.9	3218.5	2803.0	2517.2	2350.0	2296.7	2279.1	2276.0
17.5°	4750.9	4663.4	4177.8	3486.8	2837.2	2405.7	2182.8	2115.9	2128.7	2151.8	2152.6
20°	4866.4	4714.3	4042.4	3157.2	2435.2	2078.5	2002.9	2052.3	2112.8	2159.7	2166.1
22.5°	4980.2	4750.1	3868.1	2776.7	2075.3	1894.6	1948.0	2037.9	2107.2	2158.1	2166.9
25°	5075.7	4758.9	3627.7	2370.7	1825.4	1825.4	1921.7	2006.9	2075.3	2125.5	2134.3
27.5°	5110.8	4700.0	3288.6	1994.9	1699.6	1793.5	1885.1	1955.9	2014.1	2067.4	2076.9
30°	5124.3	4590.9	2896.9	1693.2	1647.9	1759.3	1835.7	1896.2	1951.2	2001.3	2010.1
32.5°	5126.7	4459.6	2481.3	1522.1	1612.0	1723.5	1774.4	1827.8	1886.7	1906.6	1909.8
35°	5141.8	4304.3	2043.5	1434.5	1578.6	1690.1	1730.7	1768.9	1673.3	1680.5	1686.9
37.5°	5185.6	4150.7	1677.3	1385.2	1557.1	1672.5	1721.1	1582.6	1507.8	1490.2	1487.9
40°	5267.6	3986.7	1405.9	1345.4	1549.1	1681.3	1659.8	1477.5	1348.5	1252.2	1237.9
42.5°	5381.4	3810.0	1232.3	1319.1	1554.7	1723.5	1574.6	1376.4	1162.3	1100.2	1092.2
45°	5509.6	3624.5	1138.4	1300.8	1573.8	1756.1	1557.1	1241.9	1075.5	1028.5	1024.5
47.5°	5633.8	3397.6	1089.8	1292.8	1600.1	1729.9	1483.1	1200.5	1034.1	1009.4	1011.8
50°	5776.3	3193.0	1060.4	1284.1	1623.2	1713.1	1399.5	1179.0	1018.2	1048.4	1080.3
52.5°	5896.5	2981.3	1034.1	1266.5	1631.9	1683.7	1378.0	1183.0	1018.2	1076.3	1106.5
55°	6039.0	2821.3	1003.8	1229.9	1615.2	1600.1	1362.9	1206.8	1030.1	993.5	996.7
57.5°	6222.9	2768.7	970.4	1172.6	1559.5	1478.3	1355.7	1229.9	1022.9	999.9	1007.8
60°	6477.6	2824.4	956.9	1097.8	1472.7	1382.8	1356.5	1218.0	972.8	933.0	933.8
62.5°	6720.4	2886.5	956.1	1050.8	1366.1	1297.6	1338.2	1179.0	947.3	924.2	933.0
65°	6800.0	2823.7	917.9	998.3	1245.8	1195.7	1304.8	1137.6	928.2	893.2	891.6
67.5°	6693.3	2628.6	840.6	913.1	1108.1	1077.1	1261.0	1088.2	898.0	869.3	864.5
70°	6376.5	2193.2	745.1	800.8	951.3	943.3	1191.7	1030.9	857.4	832.7	812.0
72.5°	5523.9	1562.7	628.1	666.3	774.6	800.0	1096.2	956.1	800.0	746.7	714.9
75°	4536.8	1156.7	515.9	523.8	588.3	657.6	964.8	868.5	732.4	641.6	617.0
77.5°	2778.3	707.7	410.8	414.0	421.9	524.6	794.5	770.6	646.4	535.0	517.4
80°	899.6	386.1	296.9	312.1	288.2	384.5	614.6	656.0	554.9	447.4	428.3
82.5°	342.3	225.3	200.6	211.0	199.8	257.9	448.2	525.4	454.6	367.8	299.3
85°	165.6	127.4	118.6	132.9	123.4	132.1	286.6	386.9	344.7	239.6	222.9
87.5°	58.9	56.5	45.4	61.3	52.5	47.0	87.6	195.0	227.7	164.8	147.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)